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NOTICE OF ALLOWANCE AND FEE(S) DUE

Waters Technologies Corporation
34 MAPLE STREET - LG
MILFORD, MA 01757

EXAMINER
PREGLER, SHARON

ART UNIT PAPER NUMBER

1772

DATE MAILED: 09/15/2011

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/586,114 | 08/24/2007 | Geoff C. Gerhardt | W-327 | 1786 |

TITLE OF INVENTION: SAMPLE INJECTOR SYSTEM FOR LIQUID CHROMATOGRAPHY

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 12/15/2011 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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| CURRENT CORRESPONDI 43840 | | ock 1 for any change of address) | Fee(s | s) Transmittal. This rs. Each additional 1 | certificate cannot be used | for domestic mailings of the for any other accompanying nent or formal drawing, must |
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| | | | | | | (Depositor's name) |
| | | | | | | (Signature) |
| | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | F | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 10/586,114 | 08/24/2007 | | Geoff C. Gerhardt | | W-327 | 1786 |
| | | SYSTEM FOR LIQUID | | | | |
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| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 12/15/2011 |
| EXAM | INER | ART UNIT | CLASS-SUBCLASS | | | |
| PREGLER, | , SHARON | 1772 | 436-180000 | | | |
| "Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl | ondence address (or Cha 3/122) attached. ication (or "Fee Address)2 or more recent) attach ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Com | nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON This ified below, no assignee | 2. For printing on the part (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be part PATENT (print or type data will appear on the path a substitute for filing and (B) RESIDENCE: (CITY) | 3 registered patent ely, firm (having as a ngent) and the names neys or agents. If norinted. e) tent. If an assigneessignment. | nember a 2of up to o name is 3 | document has been filed for |
| Please check the appropriate. The following fee(s) are supported in the support of the support | | | o. Payment of Fee(s): (Please A check is enclosed. | | <u> </u> | e shown above) |
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| a. Applicant claim | tus (from status indicates s SMALL ENTITY statu | ıs. See 37 CFR 1.27. | b. Applicant is no long | | | CFR 1.27(g)(2). the assignee or other party in |
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| 43840 75 | 90 09/15/2011 | | EXAMINER | |
| Waters Technolog | | PREGLER, SHARON | | |
| 34 MAPLE STREET - LG MILFORD, MA 01757 | | | ART UNIT | PAPER NUMBER |
| | | | 1772 | |

DATE MAILED: 09/15/2011

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 374 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 374 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
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- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

| | Application No. | Applicant(s) | | |
|---|---|--|--|--|
| | 10/586,114 | GERHARDT ET AL. | | |
| Notice of Allowability | Examiner | Art Unit | | |
| | SHARON PREGLER | 1772 | | |
| The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. ☑ This communication is responsive to 7/18/2011. 2. ☐ An election was made by the applicant in response to a rest requirement and election have been incorporated into this at 3. ☑ The allowed claim(s) is/are 1-9,11-20,22-23,27-30,33-61. 4. ☑ Acknowledgment is made of a claim for foreign priority under a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☑ Copies of the certified copies of the priority documents have | ears on the cover sheet wite (OR REMAINS) CLOSED in or other appropriate communication is supplication is supplication and MPEP 1308. Triction requirement set forth action. Triction requirement set forth action. Triction requirement set forth action. | th the correspondence address-this application. If not included nication will be mailed in due course. THIS ubject to withdrawal from issue at the initiative during the interview on; the restriction f). | | |
| International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the delow. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | of this communication to file | | | |
| 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give | | | | |
| 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. | | | | |
| Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material /Sharon Pregler/ Examiner, Art Unit 1772 | 6. ☐ Interview St Paper No./ 7. ☐ Examiner's | formal Patent Application Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance Search. | | |

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Shibamoto teaches in Figure 1 a **high pressure gas** chromatograph system comprising a main body 23 (claimed housing with chamber), a sample injection port 11 (claimed first inlet opening) which receives a needle (first inlet conduit means) with a sample injected (sample supply) into the chamber of the main body (column 3 lines 60-63), an exit column 12 (first exit conduit means) within an opening at the bottom of body 23 (first exit opening), a split flow line 28 (second exit opening) for discharging, and carrier gas line 26 (second inlet opening) for receiving fluid, and control unit 14 that controls the flow rate control valves 32 & 34, which are respectively in the carrier flow line 26 (second inlet opening) and split flow line 28, (second exit opening).

Gilson teaches in Figures 1-2 a chamber 12 where multiple inlets and outlets are received by conduits: inlet liquid supply conduit 24 (inlet conduit means) received by inlet 22 (inlet opening), and liquid delivery conduit 16 (outlet conduit means) received by outlet 28 (outlet opening) (Gilson column 2 lines 5-30), vent conduit 60 (outlet conduit means) received by vent opening 56 (outlet opening), pressurized air conduit 58 (inlet conduit means) received by air opening 54 (inlet opening) (column 3 lines 25-45). Conduits may be any size and length to provide means for supplying the chamber with sample and to provide means for delivering sample from the chamber which would benefit from liquid transport without relying on gravity or siphon effects (Gilson column 2 lines 70-75).

Oberhauser teaches in figure 1 a liquid chromatography apparatus with an elongated column with pump means 26 and 36, injectors 22 and 32 to input conduit 25 coupled to column 20 under the control of controller 39 (column 4 lines 25-65) where materials for the conduits are chosen to withstand pressures of up to several thousand psi. When portions of the conduits are placed in apertures, a tight fitting such as screws or O-rings are necessary to hold the conduits in place and prevent fluid leakage (column 6 lines 25-50).

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The aforementioned references do not teach or suggest a <u>high pressure liquid</u> chromatography structure comprising two exit conduit means each received by exit openings, two inlet conduit means each received by inlet openings, and a liquid-tight fittings disposed between an opening and its associated conduit means wherein the fitting means retain the conduit means at pressures between 15,000 psi and 120,000 psi. It would not have been obvious to one of ordinary skill in the art to modify the structural teachings of Shibamoto, Gilson, and Oberhauser for a high pressure liquid chromatograph of at least 15,000 psi because such a modification would render the system inoperable for its intended use.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHARON PREGLER whose telephone number is (571)270-5051. The examiner can normally be reached on Mon - Fri 8am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, In Suk Bullock can be reached on (571)272-5954. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sharon Pregler/ Examiner, Art Unit 1772

/Brian J Sines/ Primary Examiner, Art Unit 1772